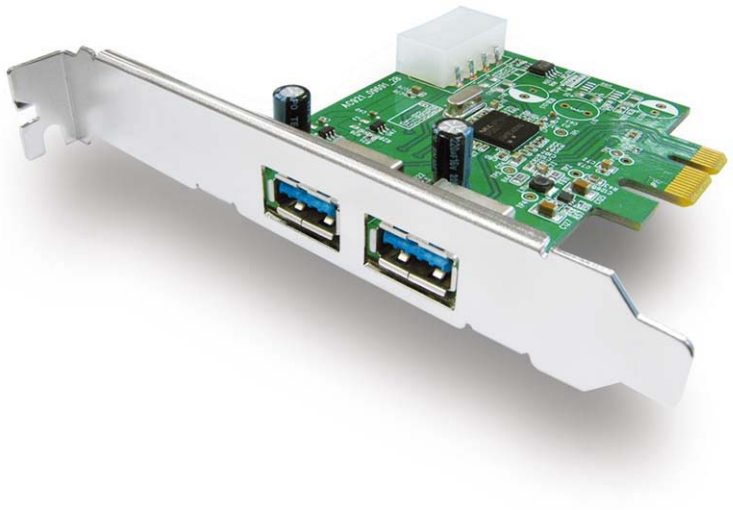
User’s Manual

USB 3.0 Expansion Card



TS-PDU3

(Version 1.0)

Transcend®

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Introduction

Congratulations on purchasing **Transcend's USB 3.0 Expansion Card**. This easy-to-install card allows you to add revolutionary new USB 3.0 ports to any desktop computer with a PCI Express slot. Its PCI Express 2.0 x1 connection interface is compatible with virtually all current motherboards, and guarantees unrestricted two-way communication between your PC and any USB devices you plug into the card. With two SuperSpeed USB 3.0 ports, which have bandwidth up to 5Gbits per second, Transcend's USB 3.0 Expansion Card is ideal for use with new USB 3.0 high-capacity external storage devices. This User's Manual is designed to help you install and use your new USB 3.0 Expansion Card.

Package Contents

The **USB 3.0 Expansion Card** package includes the following items:

- USB 3.0 Expansion Card

- Driver CD

- Quick Installation Guide

Features

- Add USB 3.0 ports to any desktop computer with a PCI Express® slot
- Connection bandwidth up to 5Gbits per second (in USB 3.0 mode)
- Ultra-fast PCI Express® interface eliminates speed bottlenecks
- Installs easily in any PCIe slot, including x1 and x16 slots
- Backwards compatible with USB 2.0 and USB 1.1 devices
- Supports PCI bus power management interface rev. 1.2
- Compact size saves space and inside your PC
- Fully compatible with PCI Express® 2.0
- Two external USB 3.0 ports
- xHCI compliant

System Requirements

One of following operating systems:

- Windows® XP
- Windows® Vista
- Windows® 7

Safety Precautions

These usage and safety guidelines are **IMPORTANT!** Please follow them carefully.

Before installation, please ensure your computer is off and its AC power cord is disconnected.

General Use

- To prevent damage cause by electrostatic discharge (ESD), always touch a grounded or large metal object before handling the USB 3.0 Expansion Card.
- During operation, avoid exposing the card to extreme temperatures above 35℃(95℉), or below 5℃(41℉).
- Do not allow the card to come in contact with water or any other liquids.
- Do not store the USB 3.0 Expansion Card in any of the following environments:
    - Direct sunlight
    - Next to an air conditioner, electric heater or other heat sources
    - In a closed car that is in direct sunlight
- Please ensure that the USB 3.0 Expansion Card's metal bracket has been secured to your computer case with a screw or other mounting method provided by your case manufacturer.

Transferring Data

- **Transcend does NOT take any responsibility for data loss or damage during operation**. We strongly advise that you regularly create backups of important data in multiple locations and on different storage mediums.
- To ensure Super-Speed 5Gb/s data transfer rates when connecting a USB 3.0 storage device, please make sure the USB 3.0 Expansion Card drivers are correctly installed. Please refer to the *driver installation* section of this manual.

Power

- The power provided by your computer's PCI Express slot is insufficient to power USB 3.0 devices. Please ensure that the 4-pin power connector is connected to your PC power supply before connecting any devices.

	The 4-pin power connector MUST be connected to your PC power supply to provide sufficient power for USB 3.0 devices

Product Overview

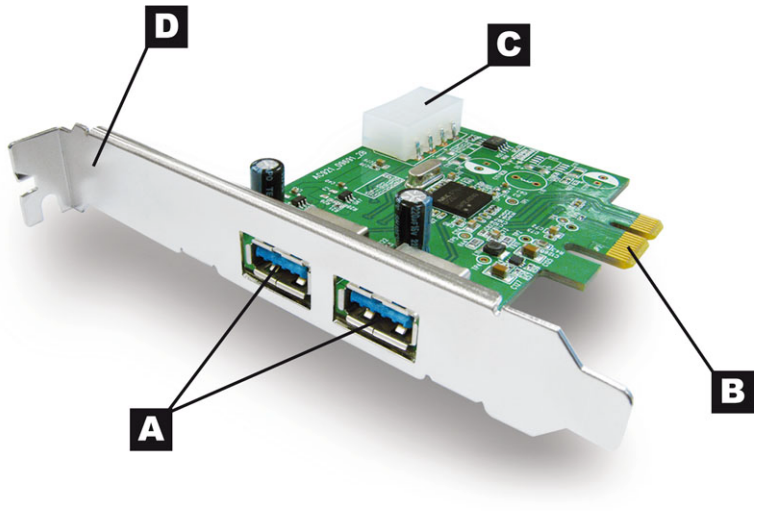


Figure 1: USB 3.0 Expansion Card

A **Two USB 3.0 Ports**

B **PCI Express x1 Connector**

C **4-pin Power Input**

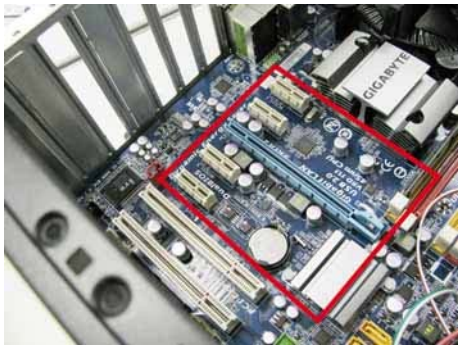
D **Installation Bracket**

Hardware Installation

1. Turn off your computer and disconnect its AC power cord.

2. Open your computer's case and locate its PCI Express slots. (Check the owner's manual of your PC if you are not sure how to do this)

3. Select a PCI Express slot to install the USB 3.0 card into (short and long slots will both work), and remove the metal bracket or placeholder next to the slot.



4. Connect an available 4-pin power connector from your computer's power supply to the USB 3.0 Expansion card.

> **Note: Before handling the USB 3.0 Expansion Card, first ground yourself by touching a large metal object such as the computer case.**

5. Align the USB 3.0 Expansion Card with the PCI Express slot and press down firmly until it is fully seated in the slot.

6. Secure the USB 3.0 Expansion card to the computer case with the appropriate screw or other mounting method used by your case.

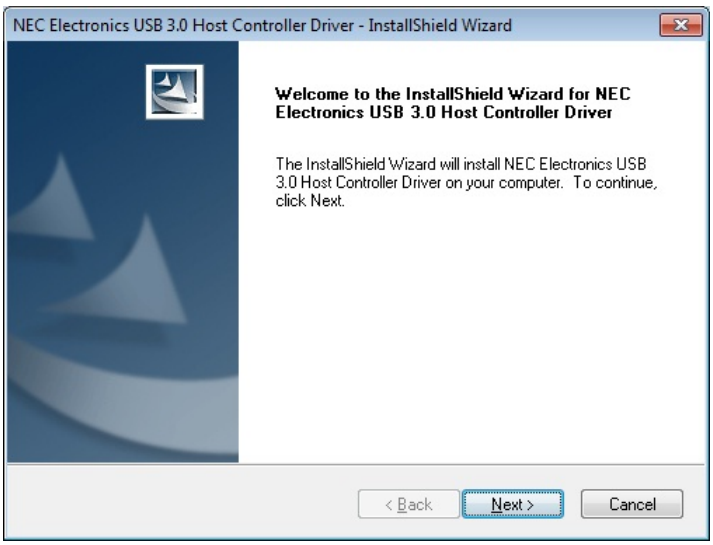
7. Close the computer case and reconnect the AC power cord along with any other necessary cables.

Driver Installation

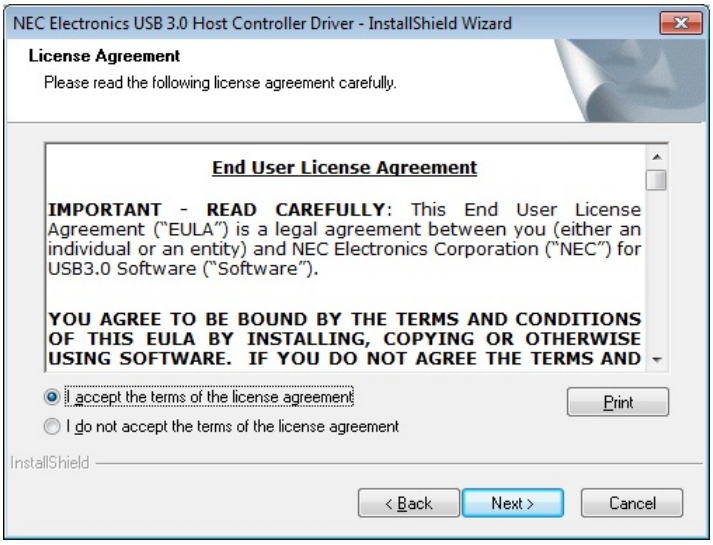
1. Insert the Driver CD into your CD-ROM drive.

2. The AutoPlay window should appear. Click on “Driver” to begin the installation.

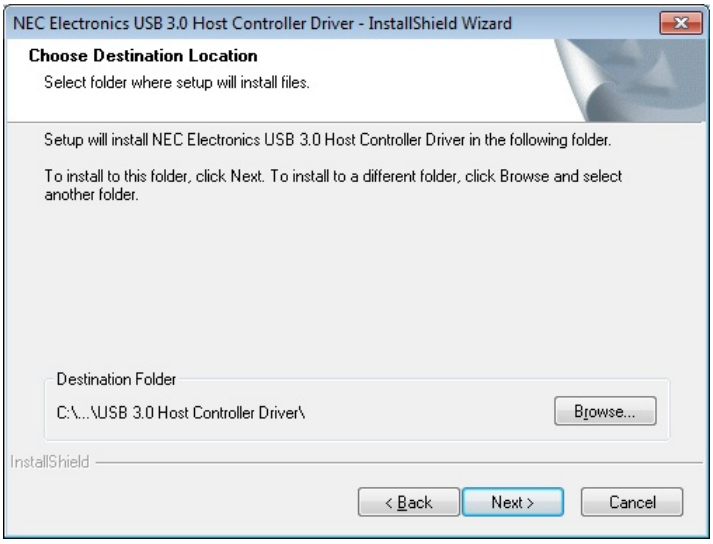
3. The installation wizard will start. Click “Next” to continue.


NEC Electronics USB 3.0 Host Controller Driver - InstallShield Wizard
Welcome to the InstallShield Wizard for NEC Electronics USB 3.0 Host Controller Driver
The InstallShield Wizard will install NEC Electronics USB 3.0 Host Controller Driver on your computer. To continue, click Next.
< Back
Next >
Cancel

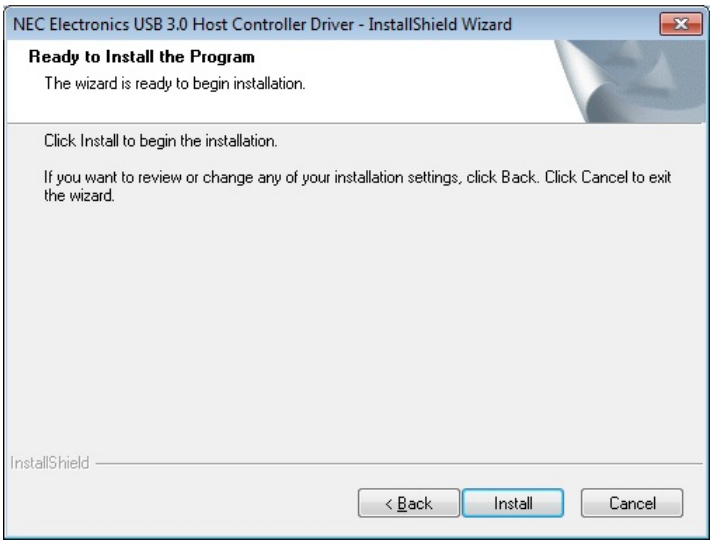
4. Choose “I accept the terms of the license agreement” and then click “Next.”


NEC Electronics USB 3.0 Host Controller Driver - InstallShield Wizard
License Agreement
Please read the following license agreement carefully.
End User License Agreement
IMPORTANT - READ CAREFULLY: This End User License Agreement ("EULA") is a legal agreement between you (either an individual or an entity) and NEC Electronics Corporation ("NEC") for USB3.0 Software ("Software").
YOU AGREE TO BE BOUND BY THE TERMS AND CONDITIONS OF THIS EULA BY INSTALLING, COPYING OR OTHERWISE USING SOFTWARE. IF YOU DO NOT AGREE THE TERMS AND
I accept the terms of the license agreement
I do not accept the terms of the license agreement
Print
InstallShield
< Back
Next >
Cancel

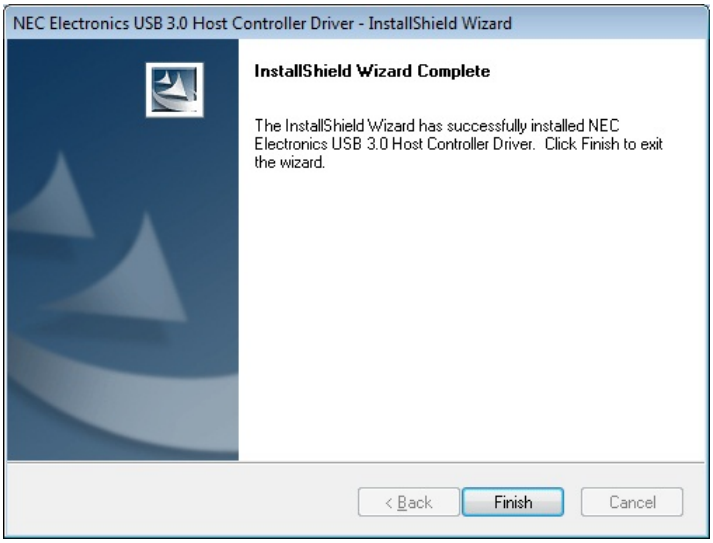
5. Choose a destination folder for the driver files and click “Next” again.


NEC Electronics USB 3.0 Host Controller Driver - InstallShield Wizard
Choose Destination Location
Select folder where setup will install files.
Setup will install NEC Electronics USB 3.0 Host Controller Driver in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\...\USB 3.0 Host Controller Driver\
Browse...
InstallShield
< Back
Next >
Cancel

6. Click “Install.”


NEC Electronics USB 3.0 Host Controller Driver - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

7. Once the driver has finished installing, click “Finish” to exit the wizard.


NEC Electronics USB 3.0 Host Controller Driver - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed NEC Electronics USB 3.0 Host Controller Driver. Click Finish to exit the wizard.
< Back
Finish
Cancel

8. Restart your system.

Troubleshooting

If a problem occurs with your USB 3.0 Expansion Card, please first check the information listed below before taking the card in for repair. If you are unable to remedy a problem after trying the following suggestions, please consult your dealer, service center, or local Transcend branch office. We also have FAQ and Support services on our website.

USB 3.0 devices cannot be recognized

Check the following:

1. Is your USB 3.0 Expansion Card properly plugged into the PCI Express slot? If not, unplug it and plug it in again. If it is properly connected, try using another available PCIe slot (x1, x2, x4, x8, or x16).
2. Ensure that the driver has been installed successfully.
3. Is the PCI Express slot disabled in the BIOS settings? Please see your motherboard's user manual for instructions on how to enter the BIOS and enable the PCIe slots.
4. Is the USB 3.0 Expansion Card connected to your computer's power supply? Ensure that you have connected a 4-pin power connector from your PC power supply to the Expansion Card. For best results, use a power cable that is not connected to hard drives or other components with high power consumption.

	The 4-pin power connector MUST be connected to provide sufficient power for external USB 3.0 devices

5. Ensure that your computer BIOS has been updated to the latest version.

My computer cannot power on

Check the following:

1. Ensure that the USB 3.0 Expansion Card is properly connected to the PCI Express slot on your computer. Try unplugging the card and reconnecting it.
2. Ensure that computer's boot drive (HDD) is connected properly.
3. Does USB 3.0 Expansion Card conflict with other PCI Express cards? If so, please carefully remove other PCIe cards to determine which card is causing the conflict.
4. USB devices can sometimes cause conflicts that can prevent your computer from turning on. Try unplugging USB devices from the USB ports on your computer.

USB 3.0 Expansion Card

Specifications

Dimensions (PCB size)	80mm (L) × 69mm (W)
Weight	47g
USB Bus Power Output	5V DC, 900mA (max) per port
PC Interface	PCI Express® 2.0 single lane (x1)
USB Ports:	2 external (supports USB 1.1 / 2.0 / 3.0)
Connection Bandwidth	Up to 5Gbits per second
Operating Temperature	5℃ (41℉) to 35℃ (95℉)
Certificates	CE, FCC, BSMI
Warranty	2-years

Ordering Information

Device Description	*Transcend P/N*
USB 3.0 Expansion Card	TS-PDU3

Transcend Limited Warranty

“Above and Beyond” is the standard we set ourselves for customer service at Transcend. We consistently position ourselves to be significantly above the industry norm, which is all part of our commitment to Customer Satisfaction.

Please do not break or remove the warranty sticker on your Transcend products, as this will void your product warranty.

All **Transcend information, Inc. (Transcend)** products are warranted and tested to be free from defects in material and workmanship and to conform to the published specifications. During the warranty period should your Transcend **USB 3.0 Expansion Card** fail under normal use in the recommended environment due to improper workmanship or materials, Transcend will repair the product or replace it with a comparable one. This warranty is subject to the conditions and limitations set forth herein.

Duration of Warranty: The Transcend **USB 3.0 Expansion Card** is covered by this warranty for a period of two (2) years from the date of purchase. Proof of purchase including the date of purchase is required to collect on the warranty. Transcend will inspect the product and decide whether to repair or replace it. Transcend reserves the right to provide a functional equivalent product, or a refurbished replacement product.

Limitations: This warranty does not apply to product failure caused by accidents, abuse, mishandling, improper installation, alteration, acts of nature, improper usage, or problems with electrical power. In addition, opening or tampering with the product casing, or any physical damage, abuse or alteration to the product’s surface, including all warranty or quality stickers, product serial or electronic numbers will also void the product warranty. Transcend is not responsible for recovering any data lost due to the failure of a hard drive device. Transcend’s **USB 3.0 Expansion Card** must be used with devices that conform to the recommended industry standards. Transcend will not be liable for damages resulting from a third party device that causes the Transcend **USB 3.0 Expansion Card** to fail. Transcend shall in no event be liable for any consequential, indirect, or incidental damages, lost profits, lost business investments, lost goodwill, or interference with business relationships as a result of lost data. Transcend is also not responsible for damage or failure of any third party equipment, even if Transcend has been advised of the possibility. This limitation does not apply to the extent that it is illegal or unenforceable under applicable law.

Disclaimer: The foregoing limited warranty is exclusive. There are no other warranties, including any implied warranty of merchantability or fitness for a particular purpose. This warranty is not affected in any part by Transcend providing technical support or advice.

Online Registration: To expedite the warranty service, please register your Transcend Product within 30 days of purchase.

Register online at **www.transcend.com.tw/register**

∗ The specifications mentioned above are subject to change without notice.

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www.transcend.com.tw

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